

29539 Multi-Conductor - 2000V UL Flexible Motor Supply Cable

For more Information
please call

1-800-Belden1

**General Description:**

4-cond. (3)stranded tinned copper circuit cond. plus (1) ground wire with PVC insulation, XLPE insulation, overall Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), with tinned copper sectioned drain wire, Sun-&oil-resistant PVC jacket.

Usage (Overall)

Suitable Applications: AC Motor Drives, VFD, Variable Frequency Drives

Physical Characteristics (Overall)**Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	8	7x19x29	TC - Tinned Copper

Total Number of Conductors: 3

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 8

Ground Wire Stranding: 7x19x29

Ground Wire Conductor Material: TC - Tinned Copper

Ground Wire Insulation Material: PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
XLPE - Cross Linked Polyethylene	0.070

Insulation Resistance: 300 Megaohms/1000 ft.

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
14 (4x)	41x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.960 in.

Mechanical Characteristics (Overall)

UL Temperature Rating: 90°C Wet/Dry

Bulk Cable Weight: 604 lbs/1000 ft.

Max. Recommended Pulling Tension: 768 lbs.

Min. Bend Radius/Minor Axis: 9.600 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification: TC-ER, Unlisted Singles, WTTTC

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NEC Articles:	336 - ER
CEC/C(UL) Specification:	600V Type CIC TC
CSA Specification:	1000 V AWM I/II A/B
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
PMSHA Specification:	P-07-KA070003
Other Specification:	2000V UL Flexible Motor Supply Cable

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT4
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

65.000

Nom. Inductance:

Inductance (µH/ft)

.181

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

36.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

65.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

0.64

Max. Operating Voltage - UL:

Voltage

1000 V RMS (Flexible Motor Supply Cable)

600 V RMS (NEC Type TC)

Max. Recommended Current:

Current

55 Amps per conductor @ 30°C (per NEC)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
29539 0101000	1,000 FT	720.000 LB	BLACK	Z	4 #8 XLPO SH PVC
29539 0105000	5,000 FT	3,535.000 LB	BLACK	Z	4 #8 XLPO SH PVC

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Notes:

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 08-20-2013

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.